

Product datasheet

Recombinant Mouse TRAP/CD40L protein (His tag)
ab208481

1 Image

Description	
Product name	Recombinant Mouse TRAP/CD40L protein (His tag)
Purity	> 95 % SDS-PAGE. Affinity purified
Endotoxin level	< 1.000 Eu/µg
Expression system	Baculovirus infected insect cells
Accession	<u>P27548</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MQRGDEDPQIAAHVVSEANSNAASVLQWAKKGYTMKS NLVMLENGKQLT VKREGLYYVYTQVTFCSNREPSSQRPFMGLWLKPSSGSE RILLKAANTH SSSQLCEQQSVHLGGVFELQAGASVFVNVTEASQVIHRV GFSSFGLLKLH HHHHH
Predicted molecular weight	17 kDa including tags
Amino acids	112 to 260
Tags	His tag C-Terminus
Additional sequence information	NP_035746. Soluble full length protein.

Specifications	
Our <u>Abpromise guarantee</u> covers the use of ab208481 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	SDS-PAGE
Form	Liquid

Preparation and Storage	
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Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 90% PBS, 10% Glycerol (glycerin, glycerine)

General Info

Function

Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching.

Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and an matrix metalloproteinases (MMP) inhibitor-sensitive pathway.

Tissue specificity

Specifically expressed on activated CD4+ T-lymphocytes.

Involvement in disease

Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1) [MIM:308230]; also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isotype switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isotypes. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including *Pneumocystis carinii* pneumonia and intractable diarrhea due to cryptosporidium infection. Despite substitution treatment with intravenous immunoglobulin, the overall prognosis is rather poor, with a death rate of about 10% before adolescence.

Sequence similarities

Belongs to the tumor necrosis factor family.

Post-translational modifications

The soluble form derives from the membrane form by proteolytic processing.

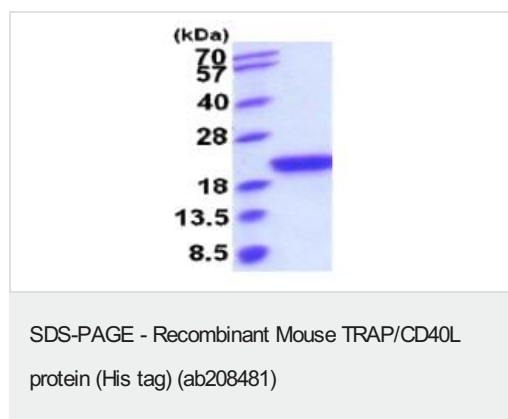
N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40.

Not O-glycosylated.

Cellular localization

Secreted and Cell membrane.

Images



15% SDS-PAGE analysis of ab208481 (3µg). Molecular weight 18-28KDa (SDS-PAGE under reducing conditions.)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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